ANANDALAYA
PERIODIC TEST – 1
Class – VII

Subject: Mathematics	M.M: 50
Date : 16/07/2019	Time: 2 hours

General Instructions:
i)   All questions are compulsory.
ii)   This question paper contains 22 questions.
iii)   Questions 1 – 7 in Section A are multiple choice type questions carrying 1 mark each.
iv)   Questions 8 – 13 in Section B are short-answer type questions carrying 2 marks each.
v)   Questions 14 – 18 in Section C are short -answer type questions carrying 3 marks each.
vi)   Questions 19 – 22 in Section D are long-answer type questions carrying 4 marks each.

SECTION-A

1.   Subtraction of integers: (1)
     (a) is commutative (b) is associative (c) holds closure law (d) None of these

2.   The value of $\frac{3}{4}$ of 36 is :   (1)
     (a) 48   (b) 24   (c) 27   (d) 9

3.   The value of $55 \div (-5)$ (1)
     (a) 11   (b) 50   (c) 60   (d) -11

4.   The equivalent fraction of $\frac{4}{5}$ is: (1)
     (a) $\frac{8}{15}$ (b) $\frac{12}{10}$ (c) $\frac{8}{10}$ (d) $\frac{4}{9}$

5.   Write the value of $(-2)\ (-3)\ (-1)\ (-4)$ (1)
     (a) -24 (b) 10   (c) 24   (d) -11

6.   The value of $27 \div \frac{3}{4}$ is: (1)
     (a) $20\frac{1}{4}$ (b) 36   (c) 7   (d) 34

7.   The mathematical statement $7 \times (-6)] = 7 \times (-6)$ represents :   (1)
          (a) closure under multiplication   (b) commutativity of multiplication
          (c) associativity of multiplication   (d) None of these

SECTION-B

8.   A plane is flying at the height 5000 m above the sea level. At a particular point , it is exactly   (2)
     above a submarine floating 1200 m below the sea level. What is the vertical distance between
     them?

9.   Convert the following mixed fractions into improper fractions: (2)
     (a) $3\frac{1}{5}$ (b) $2\frac{5}{7}$ (c) $3\frac{4}{9}$ (d) $4\frac{2}{3}$

10. Use the sign of >, < or = in the box to make the statements true.   (2)
     (a) $(-8) + (-4)$ ☐ $(-8) - (-4)$

     (b) $(-3) + 7 - (19)$ ☐ $-15 - 8 + (-9)$

11. Arrange the following in ascending order: (2)
$\frac{3}{5}, \frac{2}{3}, \frac{11}{14}, \frac{5}{7}$

12. At Srinagar temperature was $-7\ ^{\circ}$ C on Monday and then it dropped by 2° C on Tuesday. What was the temperature of Srinagar on Tuesaday? (2)

13. Solve : $1\frac{7}{10} + 1\frac{11}{15}$ (2)

SECTION-C

14. Find each of the following products: (3)
    (a) $2 \times (-5) \times (-7)$ (b) $(-5) \times (-3) \times (-2)$ (c) $(-1) \times (-2) \times (-3) \times 6$

15. Multiply and reduce to lowest form and then mixed number (if possible) : (3)
    (a) $\frac{3}{5} \times 3\frac{1}{4}$ (b) $\frac{5}{4} \times 4\frac{3}{5}$

16. Find the product, using suitable properties: (3)
    (a) $69 \times (-318) + (-318) \times (-59)$
    (b) $(-79) \times (-19) + 79$

17. Ramesh studies for $5\frac{1}{5}$ hours daily. He devotes $3\frac{1}{3}$ hours for Science and Mathematics. How much time does he devote for other subjects? (3)

18. Verify that $a \div (b + c) \neq (a \div b) + (a \div c)$ (3)
    for $a = 12$, $b = -4$, $c = 2$

SECTION-D

19. The length and breadth of a rectangular field is 6.75 and 4.50 metre. What is the perimeter and area of of the field? (4)

20. A shopkeeper earns a profit of ` 1 by selling one pen and incurs a loss of 40 paise per pencil while selling pencils of her old stock. (4)
    (i)   In a particular month she incurs a loss of ` 5. In this period, she sold 45 pens. How many pencils did she sell in this period?
    (ii)   In the next month she earns neither profit nor loss. If she sold 70 pens, how many pencils did she sell?

21. The price of 1.900 kg of apple is ` 163.40 Find the price of 1 kg of apple and also for 3.7 kg of apple. (4)

22. In a test (+5) marks are given for every correct answer and (–2) marks are given for every incorrect answer. (4)
    (i) Radhika answered all the questions and scored 30 marks though she got 10 correct answers.
    (ii) Jay also answered all the questions and scored (–12) marks though he got 4 correct answers.
    How many incorrect answers had they attempted?